## **CLAIMS**

What is claimed is:

 A method for a receiver to detect a need to implement a filter to a multicast program, the method comprising:

examining a connection from a client machine; retrieving a filter parameter for the connection; and implementing the filter parameter as a filter for a multicast program.

- 2. The method according to claim 1 wherein the receiver is integrated with the client machine.
- 3. The method according to claim 1 wherein examining a connection further comprises examining a user datagram protocol (UDP) port.
- 4. The method according to claim 1 wherein the connection from a client machine is used to determine the filter parameter to be retrieved.
- 5. The method according to claim 1 wherein the filter parameter comprises a program identifier.
- The method according to claim 1 wherein the receiver is a Digital Video Broadcast –
   Terrestrial receiver.
- 7. A method for a receiver to detect a need to remove a filter for a multicast program, the method comprising:

examining a filter;

determining a connection the filter is associated with;

examining a plurality of connections from a client machine;

removing the filter if the connection from the client machine does not correspond to the connection the filter is associated with.

- 8. The method according to claim 7 wherein the receiver is integrated with the client machine.
- 9. The method according to claim 7 wherein examining a connection further comprises examining a user datagram protocol port.
- 10. The method according to claim 7 wherein determining further comprises determining whether there is a connection to the client machine.
- 11. The method according to claim 7 wherein the receiver fetches a filter parameter from a table containing service information.
- 12. A method for a receiver to detect a need to implement a filter for a multicast program, the method comprising:

examining a message received from a client machine; retrieving a filter parameter for a connection to the client machine; and implementing the filter parameter as a filter for a multicast program.

- 13. The method according to claim 12 wherein the receiver is integrated with the client machine.
- 14. The method according to claim 12 wherein the receiver is a Digital Video Broadcast Terrestrial receiver.
- 15. A method for a receiver to detect a need to remove a filter for a multicast program, the method comprising:

examining a message received from a client machine; retrieving a filter parameter for a connection to the client machine; and removing a filter based on the filter parameter.

- 16. The method according to claim 15 wherein the message is an IGMP message.
- 17. The method according to claim 15 wherein the receiver fetches the filter parameter from a table containing service information.

18. A method for managing a filter, the method comprising:

detecting an IGMP packet containing an instruction to join or leave a multicast group, said IGMP packet being associated with an entry in a table;

removing a filter based on a filter parameter associated with the entry in the table that corresponds to the IGMP message having the instruction to leave a multicast group; and

adding a filter based on a filter parameter associated with the entry in the table that corresponds to the IGMP packet having the instruction to enter a multicast group.

19. A method for managing a filter in a system having a service information table (SIT) comprising a plurality of entries, each entry having a port number and a filter parameter, and a User Datagram Protocol (UDP) Listener Table comprising a plurality of entries, each entry having a port number and an local internet protocol (IP) address, the method comprising:

comparing each entry in a UDP Listener Table to each entry in a SIT;

determining a filter parameter of a first type of entry, wherein the first type of entry is present in the UDP Listener Table and not present in the SIT;

implementing a filter parameter of the first type of entry as a first filter;

determining the filter parameter of a second type of entry that is present in the

SIT and not present in the UDP Listener Table;

removing a second filter based on the filter parameter of the second type of entry.

- 20. The method according to claim 19 wherein the UDP Listener Table entry is identified as a multicast address by the local IP address.
- 21. A method for creating a filter for data at a multicast receiving node, the method comprising:

detecting a multicast data connection;

associating the data connection with a filter parameter;

creating a socket;

binding the socket to a port number;

fetching the filter parameter; and

accepting data from the data connection,

wherein said data is processed based on the filter parameter.

- 22. The method according to claim 21 wherein the multicast receiving node includes a Digital Video Broadcast Terrestrial receiver.
- 23. The method according to claim 22 wherein fetching further comprises examining a table containing service information.
- 24. A method for removing a filter for data at a multicast receiving node, the method comprising:

detecting a data connection being closed;

associating the data connection with a filter parameter;

leaving a multicast group;

fetching the filter parameter;

removing a filter based on the filter parameter.

- 25. The method according to claim 24 wherein detecting further comprises continuously polling the user datagram protocol (UDP) Listener Table.
- 26. The method according to claim 25 wherein polling the UDP Listener Table further comprises identifying multicast data from the UDP Listener Table.
- 27. A method for activating a data filter in a Digital Video Broadcast Terrestrial system having a service information table (SIT) comprising an entry having a filter parameter and a filter status, said system transmitting an IGMP message, the method comprising:

detecting a IGMP message;
retrieving a filter parameter from an SIT;
activating a filter based on the filter parameter; and
changing a filter status in the SIT.

28. A method for removing a data filter in a Digital Video Broadcast – Terrestrial system having a service information table (SIT) comprising an entry having a filter parameter, a User Datagram Packet (UDP) port number, and a filter status, said system also having a UDP Listener Table comprising an entry having a UDP port number and a local internet protocol (IP) address that indicates that said entry is a multicast connection, the method comprising:

polling a UDP Listener Table;

correlating a UDP entry with an SIT entry;

identifying an SIT entry having an active status as the filter status;

removing a data filter corresponding to a filter parameter of the identified SIT

entry; and

changing the filter status of the SIT entry.

29. An article of manufacture for managing a filter in a Digital Video Broadcast – Terrestrial system having a service information table (SIT) comprising an entry having a filter parameter, and transmitting an IGMP packet containing a multicast group address and an instruction, the article comprising:

a computer readable medium including instructions for:

detecting the IGMP packet with the instruction to join or leave a multicast group;

removing the filter for the SIT entry that corresponds to the IGMP packet having the instruction to end a subscription; and

adding the filter for the SIT entry that corresponds to the IGMP packet having the instruction to begin a subscription.

30. An article of manufacture for managing a filter in a Digital Video Broadcast - Terrestrial system having a service information table (SIT) comprising an entry having a port number and a filter parameter, and a user datagram protocol (UDP) Listener Table comprising an entry having a port number and an internal internet protocol (IP) address, the article comprising:

a computer readable medium including instructions for:

finding the SIT entry that corresponds to the UDP entry having the local IP address associated with the port number of a multicast connection.;

removing the filter that contains the filter parameter corresponding to the SIT entry with which there is no UDP entry associated; and

activating the filter for the filter parameter that is in both tables and for which the filter is not applied.

- 31. The method according to claim 1 wherein the method is implemented in a wireless handheld terminal.
- 32. The method according to claim 18 wherein the method is implemented in a wireless handheld terminal.
- 33. The method according to claim 21 wherein the method is implemented in a wireless handheld terminal.
- 34. The method according to claim 28 wherein the method is implemented in a wireless handheld terminal.